

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. PC3-057	SERIAL NO. 10/698,923	
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)					APPLICANT: Yuichi Kubo, et al		
					FILING DATE October 31, 2003	GROUP 1621	
U.S. PATENT DOCUMENTS							
Examiner's Initials		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
KP	AA	1,132,636	03/1915	Taylor, et al			
	AB	1,926,395	09/1933	T. Midgley, Jr.			
	AC	1,926,396	09/1933	Midgley, Jr.			
	AD	2,021,981	11/1935	Bichowsky			
	AE	2,413,696	01/1947	Downing, et al			
	AF	2,456,028	12/1948	Simons			
	AG	2,519,983	08/1950	Simons			
	AH	3,080,430	03/1963	Cohen			
	AI	3,479,286	11/1969	Gambaretto, et al			
	AJ	3,656,553	04/1972	Rinaldi, et al			
	AK	3,715,438	02/1973	Huggett			
	AL	3,822,207	07/1974	Howard, et al			
	AM	3,844,354	10/1974	Larsen			
	AN	4,014,799	03/1977	Owens			
	AO	4,225,404	09/1980	Dietrich, et al			
	AP	4,226,728	10/1980	Kung			
	AQ	4,446,923	03/1984	Marin			
	AR	4,459,213	04/1972	Uchida, et al			
	AS	4,538,298	08/1986	Kamel, et al.			
	AT	4,668,407	05/1987	Gerard, et al			
AU	4,810,403	03/1989	Bivens, et al				
KP	AV	4,826,610	05/1989	Thacker			
EXAMINER /Karl Puttitz/		DATE CONSIDERED 09/29/2006					
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KP	AA	4,851,595	07/1989	Gumprecht			
	AB	4,876,405	10/1989	Gervasutti			
	AC	4,937,398	06/1990	Tung, et al			
	AD	4,945,119	07/1990	Smits, et al			
	AE	4,954,271	09/1990	Green			
	AF	5,040,609	08/1991	Dougherty, et al			
	AG	5,084,180	01/1992	Fernandez			
	AH	5,115,868	05/1992	Dougherty Jr., et al			
	AI	5,141,654	08/1992	Fernandez			
	AJ	5,523,501	06/1996	Kellner, et al.			
	AK	5,562,861	10/1996	Nimitz, et al.			
	AL	5,730,894	03/1998	Minor			
	AM	6,065,547	05/2000	Ellis, et al.			
	AN	6,291,728	09/2001	Rao			
	AO	6,348,203 B1	02/2002	Robin, et al.			
	AP	6,481,530	10/2002	Robin, et al.			
	AT	6,478,979	11/2002	Rivers, et al.			
	KP	AD	6,763,694	07/2004	Schoenrock		
AS		6,849,194	02/2005	Robin, et al.			
KP	AT	5,416,246	05/1995	Krespan et al.			
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FOREIGN PATENT DOCUMENTS								
KP		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AA	CA 902590A	08/1962	Canada				
	AB	EP 0 039 471 A1	11/1981	Europe				
	AC	EP 0 253 410	01/1998	EPO				
	AD	EP 0 383 443 A2	08/1990	Europe				
	AE	EP 0 434 409 A	06/1991	Europe				
	AF	EP 0 481 818 A1	04/1992	Europe				
	AG	EP 0 570 387 B1	01/1993	Europe				
	AM	RU 2068718 C1	08/1990	Russia				
	AN	1,546,505	09/1970	Germany				
	AO	WO 91/02564	03/1991	WIPO				
	AK	WO 91/04766	04/1991	PCT				
	AL	WO 91/12853	09/1991	PCT				
	AM	WO 93/24586	12/1993	PCT				
	AN	WO 98/37043	05/1998	PCT				
	AO	WO 96/40834	12/1996	PCT				
	AP	WO 03/029173	04/2003	PCT				
	AO	698,386	10/1953	UK				
	AR	GB 1,132,636	11/1968	UK				
	AS	JP 61034595	09/1974	Japan				
	AT	JP 57-93070-A	08/1962	Japan				
KP	AW	Laid Open Hel 1-115998	05/1969	Japan				
	AW							
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FOREIGN PATENT DOCUMENTS, CONT.						
KP	AA	Sho 50-50884 (Laid Open Sho 51-131100)	04/1975	Japan		
KP	AB	Sho 48-19093	03/1973	Japan		
KP	AC	Sho 52-25679	07/1977	Japan		
KP	AD	Lai Open Hei 4- 96770	03/1992	Japan		
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)					
KP	AA	McFarland, Mack, "Chlorofluorocarbons and ozone", 1989, <i>Environ. Sci. Technol.</i> , Vol. 23, No. 10, pp. 1203-1207			
	AB	Malcomb, J.E., "Report 1177 Interim Report Vaporizing Fire Extinguishing Agents", August 1950, <i>Engineer Research and Development Laboratories, Petroleum and Distribution Branch</i> , pp. 1-9			
	AC	Wuebbles, Donald J., "The Relative Efficiency of a Number of Halocarbons for Destroying Stratospheric Ozone", January 1981, <i>Lawrence Livermore National Laboratory, University of California</i> , pp. 1-11			
	AD	Wuebbles, Donald J., "Chlorocarbon Emission Scenarios: Potential Impact on Stratospheric Ozone", February 1983, <i>Journal of Geophysical Research</i> , Vol. 88, No. C2, pp. 1433-1443			
	AE	Molina, et al., "Ultraviolet Absorption Cross Sections of Several Brominated Methanes and Ethanes of Atmospheric Interest", February 1982, <i>J. Phys. Chem.</i> , Vol. 86, 2672-2676			
	AF	The United Nations Environment Program, Montreal Protocol Assessment, Technology Review, "Report of the Halons Technical Options Committee", June 1989, Draft for Peer Review			
	AG	Larsen, Eric R., "Halogenated Fire Extinguishants: Flame Suppression by a Physical Mechanism?", 1975, <i>Halogen Research Laboratory, The Dow Chemical Corporation, Midland, Michigan</i> , pp. 376-402			
	AH	Belles, Frank E., "Chemical Action of Halogenated Agents in Fire Extinguishing", 1951, <i>National Advisory Committee for Aeronautics, Technical Note 3565</i> , pp. 1-30			
	AI	Kauschka, Von Gunther, et al., "Calculation of thermodynamic substance data and reaction balance with poly- and perhalogen hydrocarbons", October 1976, <i>Chemistry Section of the Humboldt University in Berlin</i> , Vol. 10, pp. 1-22 (translated)			
	AJ	Moore, Jeanne P., et al., "Halon Alternatives Extinguishment Testing", 1989, <i>Center for Technologies to Protect Stratospheric Ozone, New Mexico Engineering Institute, University of New Mexico, Albuquerque, New Mexico</i> , presented at the International Conference on CFC & Halon Alternatives, October 10-11, 1989, Washington, D.C., pp. 1-8			
	AK	Smart, B.E., "Fluorocarbons", 1983, <i>The Chemistry of Functional Groups, Supplement D</i> , Chapter 14, pp. 603-655			
	AL	Chemical Encyclopedia, "Boishaya Rossiiskaya Entsiklopediya" Moscow, 1992, <i>Scientific Publishing House</i> , Vol. 3, Med-Pol			
	AM	The United Nations Environment Program, Montreal Protocol Assessment, Technology Review, "Final Report of the Halons - Technical Options Committee", August 1989			
	AN	Reid, Robert C., "The properties of gases and liquids", 1987, pp. 153-167			
	AO	"Part IV The Evolution of the Montreal Protocol", 1987, Section 4.1 and 4.2, pp. 285-285			
	AP	Hynes, Robert G., et al., "Shock-Tube Study of the Pyrolysis of the Halon Replacement Molecule $CF_3CH_2CF_3$ ", 1999, <i>J. Phys. Chem. A</i> , Vol. 103, pp. 54-61			
	AO	Joint Assessment of Commodity Chemicals No. 24, <i>Pentafluoroethane (HFC 125)</i> , (E:ETOC) May 1994, pp. 14-20			
	AR	Kubota, Kazuo, "Current State and Measures Related to Chlorofluorocarbon Regulations, Part I", 1989, <i>Valqua Review</i> , Vol. 33, No. 2, pp. 1-8 (English translation - pp. 1-16)			
	AS	Malcolm, J.E., "Halogenated Extinguishing Agents", Part II Research at the Corps of Engineers' Laboratories, 1951, <i>NFPA Quarterly</i> , pp. 119-131			
	AT	Nelson, Thomas P., "Findings of the Chlorofluorocarbon Chemical Substitutes International Committee", April 1988, <i>U.S. Environmental Protection Agency, Air and Energy Engineering Research Laboratory, EPA/600/9-88/009</i> , pp. 1-K6			
	AU	Smart, Bruce E., <i>Fluorinated Organic Molecules</i> , 1986, <i>Molecular Structure and Energetics</i> , Vol. 3, pp. 141, 152			
KP	AV	Tominaga, Takeshi, "Global and Technical Countermeasures Against Fluon", 1989, <i>Thos Nikkan Kogyo Shinbun, Ltd.</i> , pp. 134-137, 156-163, 170-174 (English translation)			
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				FILING DATE October 31, 2003	GROUP 1621
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)					
KP	AA	Index to Decisions and Annexes of the Parties to the Montreal Protocol, Helsinki Meeting, p. 79, 126, 241, 1989.			
	AB	Marshall Sillig, Chemical Process Monograph No. 22, Fluorinated Hydrocarbons and Polymers, 1966, page 13.			
	AC	McLinden, Ph.D, Didion, Ph.D, "Quest for Alternatives", Ashrae Journal, December 1987, pgs. 69-78.			
	AD	National Fire Protection Association, NFPA 2001 "Clean Agent Fire Extinguishing Systems" pps. 2001-1 and 2001-14			
	AE	Creitz, Journal of Research of the National Bureau of Standard, Vol. 65A, No. 4, pp. 339-398 (1961).			
	AF	Simons, Fire Extinguishing Agents, in H.G. Bryce, Industrial Aspects of Fluorine Chemistry, at pages 354-358, Vol. 5 of Hudlicky, Milos, Chemistry of Organic Fluorine Compounds (1982).			
	AG	R. Hirst and K. Booth, Measurement of Flame-Extinguishing Concentrations, Fire Technology, Vol. 13(4): 296-315 (1977).			
	AH	Final Report on Extinguishing Agents for the Period September 1, 1947 to June 30, 1950 Covering Research Conducted by Purdue Research Foundation and the Department of Chemistry, Purdue University. Contract W-44-009-engr 807. Army Engineers Research and Development Laboratories, Fort Belvoir			
	AI	Research at the Corps of Engineers Laboratories, Halogenated Extinguishing Agents. NFPA Quarterly pgs. 116-131, (October, 1951).			
	AJ	Decision of the Technical Board of Appeal Regarding European Patent No. 0439579, November 14, 2001.			
	AK	Banks, Findings of the Chlorofluorocarbon Chemical Substitutes International Committee, Appendix A: summary Report A-1-A-5, 05/1987.			
	AL	Hogue, Cheryl, "Substitutes for Halons: No One Chemical Suitable", Int. Environment Reporter, Nov. 21, 1990, pp. 493-495.			
	AM	Federal Register Vol. 58, No. 90, May 12, 1993, pp. 28136-28149 and 28176-28185.			
	AN	"FM-200® The New Solution for Fire Protection", June, 1993, 11 pages.			
	AO	Moore, P.E., "Fluorocarbon Halon Alternatives", Fire Safety Engineering, 1997, 3 pages.			
	AP	Hampson, Roger D., "The Success of FM-200®", Fire Safety Engineering, Vol. 2, No. 1, 1995, pgs. 21-23.			
	AD	"Kiddie FM-200® Fire Suppression Systems", May 1994, 2 pages			
	AR	"Real-Scale Halon Replacement Testing," CFC/Halon News, March 1996, one page			
KP	AS	FM-200® Waterless Fire Protection for Marine Applications, 2003, 8 pages			
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				FILING DATE October 31, 2003	GROUP 1621
OTHER REFERENCES, CONT. (Including Author, Title, Date, Pertinent Pages, Etc.)					
XP	AA	Burkland, Robert E., "When It Comes to Fire Protection - Speed Counts," Automotive Industry Agenda, March 2002, one page			
	AB	Mike Bennett, "Halon Replacement for Aviation Systems," International CFC and Halon Alternatives Conference, September 29 through October 1, 1992, Washington, D.C., pages 667-672			
	AC	Thornton, Al, "FM-200, A Unique Fire Fighting Agent," 1997 Taipei International Conference on Ozone Layer Protection, December 10, 1997, 10 pages			
	AD	The Appeal Decision in invalidation action for Patent No. 2580075, 10 pages (translation)			
	AE	International Fire Protection, "Great Lakes Chemical Corporation - Company Profile," An MDM Publication, Issue 4, Nov/Dec 2000, 4 pages			
	AF	http://www.e1.greatlakes.com/wfp/product/jsp/articles.jsp "Airports and Satellite Installations Protected by FM-200®," "Healthcare Facilities Protected by FM-200® Waterless Fire Protection Systems," "Museums and Cultural Landmarks protected by FM-200®," and "Casino Properties Protected by FM-200®."			
	AG	Nimitz, et al., "Halocarbons as Halon-Replacements: Technology Review and Initiation," New Mexico Engineering Research Institute, University of New Mexico, Final Report, March 1991, 141 pages			
	AH	"A Review of the Toxic and Asphyxiating Hazards of Clean Agent Replacements for Halon 1301," A Report by the Halon Alternatives Group, February 1995, 22 pages			
	AI	Hart-Winchester, "A Burning Issue: What Products Will Replace Halon 1301?" The Computer Operations Manager, March/April 1995, pages 13-18			
	AJ	Maranghides, et al., "Discharge System Modifications: Real Scale Halon 1301 Replacement Testing," Halon Options Technical Working Conference, Albuquerque, New Mexico, May 7-9, 1996, 12 pages			
	AK	Ellis, "Pleasure Boat Fire Extinguisher Choices," Burgee 26, November 1996			
	AL	"Scientific Assessment of Stratospheric Ozone: 1989", sponsored by the United Nations Environmental Program			
	AM	Nat'l Fire Protection Assoc., Boston, "Fire Protection Handbook" 14 th ed., 2001, Sec. 1 V/Chap. 4, pp. 13-20 to 13-26			
	AN	Fukaya, Journal of Fluorine Chemistry, "Fire Extinguishing Ability of Perfluoroalkylamines and.... 2000, pp. 143-148			
XP	AD	Burns, "Fluorine Compounds in Anaesthesia" 1982, Vol. 37, pp. 276-284			
	AP				
	AO				
	AR				
	AS				
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U.S. PATENT DOCUMENTS								
Examiner Initial	Class	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate	
KP	AA	4,876,405	02/24/89	Gervasutti	570	156		
KP	AB	5,523,501	06/04/96	Kellner et al.	570	176		
	AC							
	AD							
	AE							
	AF							
	AG							
	AH							
	AI							
	AJ							
	AK							
	AL							
FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
KP	AM	698,386	10/14/53	Great Britain			x	
KP	AN	PCT/US2004/023917	07/22/04	Int'l Search Report				
KP	AO	PCT/US2004/023917	07/22/04	Written Opinion				
	AP							
	AQ							
OTHER REFERENCES (including Author, Title, Date, Periodic Pages, Etc.)								
	AR							
	AS							
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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Yutshi Hiroko, et al.			
				FILING DATE 10/21/2003		GROUP 1621	
U.S. PATENT DOCUMENTS							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
KP	AA	2,494,064	1/10/1950	Simons et al.			
	AD						
	AC						
	AD						
	AE						
	AF						
	AG						
	AM						
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
KP	AM	902,590	8/1/1962	UK			
KP	AN	EP 0 539 959 B1	6/18/1997	EPO			
KP	AO	99/71333	10/14/1999	RST			
	AP						
	AQ						
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
	AR		"Technology of Fluoropolymers" Drobey; CRC Press; Vol. 76-79; pps. 8-11, and 18-19.				
	AS						
	AT						
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LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Yoshi Ikuoka, et al.			
				FILING DATE 10/31/2003		GROUP Unknown	
U.S. PATENT DOCUMENTS							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
KP	AA	6,281,395	8/28/2001	Nagata et al.			
KP	AB	6,376,727	9/23/2002	Rao et al.			
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation
	AM						Yes No
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U.S. PATENT DOCUMENTS				PRIORITY GROUP 1621			
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KP	AA	2,494,064	01/50	Simons, et al.			
	AB	2,005,706	06/35	H.W. Daudt, et al.			
	AC	2,005,707	06/35	H.W. Daudt, et al.			
	AD	2,576,823	11/51	A.F. Benning, et al.			
	AE	2,697,124	12/54	R.M. Mantell, et al.			
	AF	2,900,423	08/59	L.B. Smith, et al.			
	AG	2,942,036	06/60	L.B. Smith, et al.			
	AH	3,258,500	06/66	F.W. Swamer, et al.			
	AI	3,436,430	04/69	L.E. Hall, et al.			
	AJ	3,636,173	01/72	L.E. Gardner			
	AK	3,803,241	04/74	I. Stoklin, et al.			
	AL	4,158,023	06/79	von Halasz			
	AM	5,043,491	08/91	Webster, et al.			
	AN	5,057,634	10/91	Webster, et al.			
	✓	AO	5,068,472	11/91	Webster, et al.		
KP	AP	5,068,473	11/91	Kellner, et al.			
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	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
KP	AQ	1,162,511	05/91	CA			
	AR	2,081,813	10/92	CA			
	AS	0 349 115 A1	01/90	EP			
	AT	0 434 407 A1	06/91	EP			
KP	AU	0 442 075 B1	08/93	EP			
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KP	AV	Herbert O. House, "Catalytic Hydrogenation and Dehydrogenation," <i>Modern Synthetic Reactions</i> , 2 nd ed., The Benjamin/Cummings Publications Company (Menlo Park, CA), p. 1/2.					
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Yuichi Iikubo, et al.PRIORITY FILING DATE
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	AB	5,171,901	12/92	Gassen, et al.			
	AC	5,177,273	01/93	Bruhke, et al.			
	AD	5,220,083	06/93	Webster, et al.			
	AE	5,268,343	12/93	Hopp, et al.			
	AF	5,364,992	11/94	Manogue, et al.			
	AG	5,430,204	07/95	Manogue, et al.			
	AH	5,446,219	08/95	Manogue, et al.			
	AI	5,621,151	04/97	Manogue			
	AJ	5,621,152	04/97	Jansen, et al.			
	AK	5,723,699	03/98	Miller, et al.			
	AL	5,902,911	05/99	Rao, et al.			
	AM	5,919,994	07/99	Rao			
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KP	AP	6,211,135	04/01	Miller, et al.			

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		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
KP	AQ	0 539 989 A1	05/93	EE				
	AR	91/05752	05/91	WO				
	AS	96/17813	06/96	WO				
	AT	98/50327	11/98	WO				
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ATTY. DOCKET NO.
PC3-037

PRIORITY SERIAL NO.
09/966,138

APPLICANT
Yuichi Iikubo, et al.

PRIORITY FILING DATE
9/28/2001

PRIORITY GROUP
1621

U.S. PATENT DOCUMENTS							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
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FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
KP	AB	99/62851	12/99	WO				
	AC	428,361	09/30	UK				
	AD	428,445	05/35	UK				
	AE	468,447	08/37	UK				
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KP	AK	J. Kvicala, et al., "Preparation of Perhalogenated Chlorofluoropropenes by Halogen Exchange in the Liquid and Vapour Phases and Their Isomer Analyses by 19F NMR Spectroscopy," <i>Journal of Fluorine Chemistry</i> , Elsevier Sequola (Netherlands), p. 155-175, (February 5, 1989).
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FOREIGN PATENT DOCUMENTS							
	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	AB						
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